

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> DECLARE
  2  CURSOR EmpCursor
  3  IS
  4  SELECT *
  5  FROM Emp;
  6  BEGIN
  7  FOR V_EmpData IN EmpCursor
  8  LOOP
  9  DBMS_OUTPUT.PUT_LINE (V_EmpData.Ename);
 10  END LOOP;
 11  END;
 12  /
KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
  1  DECLARE
  2  CURSOR EmpCursor
  3  IS
  4  SELECT *
  5  FROM Emp;
  6  BEGIN
  7  OPEN EmpCursor;
  8  FOR V_EmpData IN EmpCursor
  9  LOOP
 10  DBMS_OUTPUT.PUT_LINE (V_EmpData.Ename);
 11  END LOOP;
 12* END;
SQL> /
DECLARE
```

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```
*
ERROR at line 1:
ORA-06511: PL/SQL: cursor already open
ORA-06512: at line 4
ORA-06512: at line 8
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT *
5  FROM Emp;
6  BEGIN
7  FOR V_EmpData IN EmpCursor
8  LOOP
9  OPEN EmpCursor;
10 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
11 END LOOP;
12* END;
```

```
SQL> /
DECLARE
*
ERROR at line 1:
ORA-06511: PL/SQL: cursor already open
ORA-06512: at line 4
ORA-06512: at line 9
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT *
5  FROM Emp;
6  BEGIN
7  FOR V_EmpData IN EmpCursor
8  LOOP
9  DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
10 END LOOP;
11 CLOSE EmpCursor;
12* END;
```

```
SQL> /
KING
```

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```
BLAKE  
CLARK  
JONES  
MARTIN  
ALLEN  
TURNER  
JAMES  
WARD  
FORD  
SMITH  
SCOTT  
ADAMS  
MILLER  
DECLARE  
*
```

```
ERROR at line 1:  
ORA-01001: invalid cursor  
ORA-06512: at line 11
```

```
SQL> cl scr
```

```
SQL> DECLARE  
  2  CURSOR EmpCursor  
  3  IS  
  4  SELECT *  
  5  FROM Emp;  
  6  BEGIN  
  7  FOR EmpCursorIndex IN EmpCursor  
  8  LOOP  
  9  DBMS_OUTPUT.PUT_LINE('Record Number : ' || EmpCursor%ROWCOUNT || '  
' || EmpCursorIndex.ename);  
 10  END LOOP;  
 11  END;  
 12  /
```

```
Record Number : 1 KING  
Record Number : 2 BLAKE  
Record Number : 3 CLARK  
Record Number : 4 JONES  
Record Number : 5 MARTIN  
Record Number : 6 ALLEN  
Record Number : 7 TURNER  
Record Number : 8 JAMES  
Record Number : 9 WARD  
Record Number : 10 FORD  
Record Number : 11 SMITH  
Record Number : 12 SCOTT  
Record Number : 13 ADAMS
```

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Record Number : 14 MILLER

PL/SQL procedure successfully completed.

SQL> ED

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```
1  DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT *
5  FROM Emp;
6  BEGIN
7  FOR EmpCursorIndex IN EmpCursor
8  LOOP
9  DBMS_OUTPUT.PUT_LINE('Record Number : ' || EmpCursor%ROWCOUNT || '
' || EmpCursorIndex.Ename);
10 IF EmpCursor%ROWCOUNT = 6
11 THEN
12 EXIT;
13 END IF;
14 END LOOP;
15* END;
```

SQL> /

Record Number : 1 KING

Record Number : 2 BLAKE

Record Number : 3 CLARK

Record Number : 4 JONES

Record Number : 5 MARTIN

Record Number : 6 ALLEN

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT *
5  FROM Emp;
6  V_Limit NUMBER(2) := &GiveLimit
7  BEGIN
8  FOR EmpCursorIndex IN EmpCursor
9  LOOP
10 DBMS_OUTPUT.PUT_LINE('Record Number : ' || EmpCursor%ROWCOUNT || '
' || EmpCursorIndex.Ename);
11 IF EmpCursor%ROWCOUNT = V_Limit
```

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```
12 THEN
13 EXIT;
14 END IF;
15 END LOOP;
16* END;
SQL> /
Enter value for givelimit: 1
BEGIN
*
ERROR at line 7:
ORA-06550: line 7, column 1:
PLS-00103: Encountered the symbol "BEGIN" when expecting one of the
following:
* & = - + ; < / > at in is mod remainder not rem
<an exponent (**)> <> or != or ~= >= <= <> and or like LIKE2_
LIKE4_ LIKEC_ between || multiset member SUBMULTISET
The symbol ";" was substituted for "BEGIN" to continue.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2 CURSOR EmpCursor
3 IS
4 SELECT *
5 FROM Emp;
6 V_Limit NUMBER(2) := &GiveLimit;
7 BEGIN
8 FOR EmpCursorIndex IN EmpCursor
9 LOOP
10 DBMS_OUTPUT.PUT_LINE('Record Number : '||EmpCursor%ROWCOUNT||'
'||EmpCursorIndex.Ename);
11 IF EmpCursor%ROWCOUNT = V_Limit
12 THEN
13 EXIT;
14 END IF;
15 END LOOP;
16* END;
SQL>
Enter value for givelimit: 1
Record Number : 1 KING
PL/SQL procedure successfully completed.
```

```
SQL> /
Enter value for givelimit: 2
Record Number : 1 KING
```

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Record Number : 2 BLAKE

PL/SQL procedure successfully completed.

SQL> /

Enter value for givelimit: 3

Record Number : 1 KING

Record Number : 2 BLAKE

Record Number : 3 CLARK

PL/SQL procedure successfully completed.

SQL> /

Enter value for givelimit: 5

Record Number : 1 KING

Record Number : 2 BLAKE

Record Number : 3 CLARK

Record Number : 4 JONES

Record Number : 5 MARTIN

PL/SQL procedure successfully completed.

SQL> /

Enter value for givelimit: 16

Record Number : 1 KING

Record Number : 2 BLAKE

Record Number : 3 CLARK

Record Number : 4 JONES

Record Number : 5 MARTIN

Record Number : 6 ALLEN

Record Number : 7 TURNER

Record Number : 8 JAMES

Record Number : 9 WARD

Record Number : 10 FORD

Record Number : 11 SMITH

Record Number : 12 SCOTT

Record Number : 13 ADAMS

Record Number : 14 MILLER

PL/SQL procedure successfully completed.

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1 DECLARE

2 V_RowCount NUMBER(4);

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```
3  CURSOR EmpCursor
4  IS
5  SELECT *
6  FROM Emp;
7  BEGIN
8  DBMS_OUTPUT.PUT_LINE (RPAD (LPAD ('Employees Information', 49, '*'),
80, '*'));
9  DBMS_OUTPUT.PUT_LINE (RPAD ('-', 80, '-'));
10 DBMS_OUTPUT.PUT_LINE (RPAD ('EmpNo', 8) || RPAD ('Ename',
12) || RPAD ('Job', 12) || RPAD ('Deptno', 8) || RPAD ('Mgr',
10) || RPAD ('Hiredate', 12) || RPAD ('Sal', 12) || RPAD ('Comm', 10));
11 DBMS_OUTPUT.PUT_LINE (RPAD ('-', 80, '-'));
12 FOR EmpCursorIndex IN EmpCursor
13 LOOP
14 V_RowCount := EmpCursor%ROWCOUNT;
15 DBMS_OUTPUT.PUT_LINE (RPAD (EmpCursorIndex.Empno, 8)
|| RPAD (EmpCursorIndex.Ename, 12) || RPAD (EmpCursorIndex.Job,
12) || RPAD (EmpCursorIndex.Deptno, 8) || NVL (TO_CHAR (RPAD (EmpCursorIndex.MGR,
10)), 'No Manager') || RPAD (EmpCursorIndex.Hiredate,
12) || RPAD (EmpCursorIndex.Sal, 12) || NVL (TO_CHAR (RPAD (EmpCursorIndex.Comm,
12)), '-NA-'));
16 END LOOP;
17 DBMS_OUTPUT.PUT_LINE (V_RowCount || ' Rows Processed So Far...');
18* END;
```

SQL> /

*****Employees
Information*****

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
Comm						
7839	KING	PRESIDENT	10	No Manager	17-NOV-81	5000
-NA-						
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
-NA-						
7782	CLARK	MANAGER	10	7839	09-JUN-81	2450
-NA-						
7566	JONES	MANAGER	20	7839	02-APR-81	2975
-NA-						
7654	MARTIN	SALESMAN	30	7698	28-SEP-81	1250
1400						
7499	ALLEN	SALESMAN	30	7698	20-FEB-81	1600
300						
7844	TURNER	SALESMAN	30	7698	08-SEP-81	1500
0						

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```
.....
7900      JAMES      CLERK      30      7698      03-DEC-81      950
-NA-
7521      WARD       SALESMAN  30      7698      22-FEB-81      1250
500
7902      FORD       ANALYST   20      7566      03-DEC-81      3000
-NA-
7369      SMITH      CLERK     20      7902      17-DEC-80      800
-NA-
7788      SCOTT      ANALYST   20      7566      09-DEC-82      3000
-NA-
7876      ADAMS      CLERK     20      7788      12-JAN-83      1100
-NA-
7934      MILLER     CLERK     10      7782      23-JAN-82      1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  CURSOR EmpCursor
  3  IS
  4  SELECT *
  5  FROM Emp
  6  ORDER BY Sal DESC;
  7  BEGIN
  8  FOR V_EmpData IN EmpCursor
  9  LOOP
 10  DBMS_OUTPUT.PUT_LINE('Rank No : '||EmpCursor%ROWCOUNT||'
'||V_EmpData.Ename||' With Salary of '||V_EmpData.Sal);
 11  EXIT WHEN EmpCursor%ROWCOUNT = 5;
 12  END LOOP;
 13  END;
 14  /
Rank No : 1 KING With Salary of 5000
Rank No : 2 SCOTT With Salary of 3000
Rank No : 3 FORD With Salary of 3000
Rank No : 4 JONES With Salary of 2975
Rank No : 5 BLAKE With Salary of 2850
```

PL/SQL procedure successfully completed.

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```
1  DECLARE
2  CURSOR EmpCursor
```

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```
3  IS
4  SELECT
5  DENSE_RANK()
6  OVER
7  (
8  ORDER BY Sal DESC
9  ) Rank, Ename, Sal
10 FROM Emp
11 ORDER BY Sal DESC;
12 BEGIN
13 FOR V_EmpData IN EmpCursor
14 LOOP
15 DBMS_OUTPUT.PUT_LINE('Rank No : '||V_EmpData.Rank||
'||V_EmpData.Ename||' With Salary of '||V_EmpData.Sal);
16 EXIT WHEN V_EmpData.Rank = 5;
17 END LOOP;
18* END;
```

SQL> /

```
Rank No : 1 KING With Salary of 5000
Rank No : 2 SCOTT With Salary of 3000
Rank No : 2 FORD With Salary of 3000
Rank No : 3 JONES With Salary of 2975
Rank No : 4 BLAKE With Salary of 2850
Rank No : 5 CLARK With Salary of 2450
```

PL/SQL procedure successfully completed.

```
SQL> BEGIN
2  DBMS_OUTPUT.PUT_LINE('The Departments Available in Our Organization
Are...');
3  FOR DeptRecord IN
4  (
5  SELECT *
6  FROM Dept
7  )
8  LOOP
9  DBMS_OUTPUT.PUT_LINE('Department '||DeptRecord.Deptno||' Named
'||DeptRecord.Dname||' Located At '||DeptRecord.Loc);
10 END LOOP;
11 END;
12 /
```

```
The Departments Available in Our Organization Are...
Department 10 Named ACCOUNTING Located At NEW YORK
Department 20 Named RESEARCH Located At DALLAS
Department 30 Named SALES Located At CHICAGO
Department 40 Named OPERATIONS Located At BOSTON
```

PL/SQL procedure successfully completed.

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SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_EmpCount  NUMBER(2);
3  V_SumInvest NUMBER(7);
4  V_AvgInvest NUMBER(7, 2);
5  BEGIN
6  DBMS_OUTPUT.PUT_LINE('The Departments Available in Our Organization
Are...');
7  FOR DeptRecord IN
8  (
9  SELECT *
10 FROM Dept
11 )
12 LOOP
13 SELECT
14 COUNT(*), SUM(Sal), AVG(Sal) INTO
15 V_EmpCount, V_SumInvest, V_AvgInvest
16 FROM Emp
17 WHERE Deptno = DeptRecord.Deptno;
18 DBMS_OUTPUT.PUT_LINE('Department '||DeptRecord.Deptno||' Named
'||DeptRecord.Dname||' Located At '||DeptRecord.Loc||' With
'||V_EmpCount||' Employees '||' Invested With '||NVL(V_SumInvest, 0)||'
Averaging '||NVL(V_AvgInvest, 0)||';
19 END LOOP;
20* END;
SQL> /
```

The Departments Available in Our Organization Are...

Department 10 Named ACCOUNTING Located At NEW YORK With 3 Employees
Invested With 8750 Averaging 2916.67

Department 20 Named RESEARCH Located At DALLAS With 5 Employees Invested
With 10875 Averaging 2175

Department 30 Named SALES Located At CHICAGO With 6 Employees Invested
With 9400 Averaging 1566.67

Department 40 Named OPERATIONS Located At BOSTON With 0 Employees
Invested With 0 Averaging 0

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

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```
1  DECLARE
2  V_Dname Dept.Dname%TYPE;
3  V_Loc Dept.Loc%TYPE;
4  BEGIN
5  FOR EmpRecord IN
6  (
7  SELECT Ename, Deptno
8  FROM Emp
9  ORDER BY Deptno
10 )
11 LOOP
12 SELECT Dname, Loc INTO V_Dname, V_Loc
13 FROM Dept
14 WHERE Deptno = EmpRecord.Deptno;
15 DBMS_OUTPUT.PUT_LINE (EmpRecord.Ename || ' ' || EmpRecord.Deptno || '
||V_Dname||' ' ||V_Loc);
16 END LOOP;
17* END;
SQL> /
```

```
KING 10 ACCOUNTING NEW YORK
CLARK 10 ACCOUNTING NEW YORK
MILLER 10 ACCOUNTING NEW YORK
ADAMS 20 RESEARCH DALLAS
SCOTT 20 RESEARCH DALLAS
SMITH 20 RESEARCH DALLAS
FORD 20 RESEARCH DALLAS
JONES 20 RESEARCH DALLAS
WARD 30 SALES CHICAGO
JAMES 30 SALES CHICAGO
ALLEN 30 SALES CHICAGO
MARTIN 30 SALES CHICAGO
BLAKE 30 SALES CHICAGO
TURNER 30 SALES CHICAGO
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_RowCount NUMBER(4);
3  BEGIN
4  DBMS_OUTPUT.PUT_LINE (RPAD (LPAD ('Employees Information', 49, '*'),
80, '*'));
5  DBMS_OUTPUT.PUT_LINE (RPAD ('-', 80, '-'));
```

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```
6 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)||RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
7 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
8 FOR EmpCursorIndex IN
9 (
10 SELECT *
11 FROM Emp
12 )
13 LOOP
14 DBMS_OUTPUT.PUT_LINE(RPAD(EmpCursorIndex.Empno, 8)
||RPAD(EmpCursorIndex.Ename, 12)||RPAD(EmpCursorIndex.Job,
12)||RPAD(EmpCursorIndex.Deptno, 8)||NVL(TO_CHAR(RPAD(EmpCursorIndex.MGR,
10)), 'No Manager')||RPAD(EmpCursorIndex.Hiredate,
12)||RPAD(EmpCursorIndex.Sal, 12)||NVL(TO_CHAR(RPAD(EmpCursorIndex.Comm,
12)), '-NA-'));
15 END LOOP;
16* END;
SQL> /
```

*****Employees
Information*****

EmpNo Comm	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839 -NA-	KING	PRESIDENT	10	No Manager	17-NOV-81	5000
7698 -NA-	BLAKE	MANAGER	30	7839	01-MAY-81	2850
7782 -NA-	CLARK	MANAGER	10	7839	09-JUN-81	2450
7566 -NA-	JONES	MANAGER	20	7839	02-APR-81	2975
7654 1400	MARTIN	SALESMAN	30	7698	28-SEP-81	1250
7499 300	ALLEN	SALESMAN	30	7698	20-FEB-81	1600
7844 0	TURNER	SALESMAN	30	7698	08-SEP-81	1500
7900 -NA-	JAMES	CLERK	30	7698	03-DEC-81	950
7521 500	WARD	SALESMAN	30	7698	22-FEB-81	1250
7902 -NA-	FORD	ANALYST	20	7566	03-DEC-81	3000

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```
.....
7369      SMITH      CLERK      20      7902      17-DEC-80      800
-NA-
7788      SCOTT      ANALYST    20      7566      09-DEC-82      3000
-NA-
7876      ADAMS      CLERK      20      7788      12-JAN-83      1100
-NA-
7934      MILLER     CLERK      10      7782      23-JAN-82      1300
-NA-
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE;
  3  V_Ename Emp.Ename%TYPE;
  4  V_Sal Emp.Sal%TYPE;
  5  V_Desig Emp.Job%TYPE;
  6  CURSOR EmpCursor
  7  IS
  8  SELECT Empno, Ename, Sal, Job
  9  FROM Emp;
10  BEGIN
11  OPEN EmpCursor;
12  LOOP
13  FETCH EmpCursor INTO V_Empno, V_Ename, V_Sal, V_Desig;
14  EXIT WHEN EmpCursor%ROWCOUNT > 10;
15  DBMS_OUTPUT.PUT_LINE('Row Number : '||EmpCursor%ROWCOUNT||
' ||RPAD(V_Empno, 12)||RPAD(V_Ename, 12)||RPAD(V_Desig, 12)||LPAD(V_Sal,
10));
16  END LOOP;
17  CLOSE EmpCursor;
18  END;
19  /
Row Number : 1      7839      KING      PRESIDENT      5000
Row Number : 2      7698      BLAKE     MANAGER        2850
Row Number : 3      7782      CLARK     MANAGER        2450
Row Number : 4      7566      JONES     MANAGER        2975
Row Number : 5      7654      MARTIN    SALESMAN       1250
Row Number : 6      7499      ALLEN     SALESMAN       1600
Row Number : 7      7844      TURNER    SALESMAN       1500
Row Number : 8      7900      JAMES     CLERK          950
Row Number : 9      7521      WARD      SALESMAN       1250
Row Number : 10     7902      FORD      ANALYST        3000
```

PL/SQL procedure successfully completed.

SQL> cl scr

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```
SQL> CREATE TABLE BigHeads
2  (
3    Ename VARCHAR(20),
4    Salary NUMBER(6)
5  );
```

Table created.

```
SQL> SELECT * FROM BigHeads;
```

no rows selected

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2    V_Number NUMBER(2) := &GiveNumber;
3    V_Ename Emp.Ename%TYPE;
4    V_Sal Emp.Sal%TYPE;
5    CURSOR EmpCursor
6  IS
7    SELECT Ename, Sal
8  FROM Emp
9  WHERE Sal IS NOT NULL
10 ORDER BY Sal DESC;
11 BEGIN
12 DELETE BigHeads;
13 COMMIT;
14 OPEN EmpCursor;
15 FETCH EmpCursor INTO V_Ename, V_Sal;
16 WHILE EmpCursor%ROWCOUNT <= V_Number AND EmpCursor%FOUND
17 LOOP
18 INSERT INTO BigHeads(Ename, Salary)
19 VALUES(V_Ename, V_Sal);
20 FETCH EmpCursor INTO V_Ename, V_Sal;
21 END LOOP;
22 CLOSE EmpCursor;
23 COMMIT;
24* END;
SQL> /
Enter value for givenumber: 5

PL/SQL procedure successfully completed.
```

```
SQL> SELECT * FROM BigHeads;
```

ENAME	SALARY
-------	--------

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```
-----
KING                5000
SCOTT                3000
FORD                 3000
JONES                2975
BLAKE                2850
```

```
SQL> CREATE TABLE BigHeads1
2  (
3    Ename VARCHAR(20),
4    Salary NUMBER(6)
5  );
```

Table created.

```
SQL> SELECT * FROM BigHeads1;
```

no rows selected

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Number NUMBER(2) := &GiveNumber;
3  V_Ename Emp.Ename%TYPE;
4  V_CurrentSal Emp.Sal%TYPE;
5  V_LastSal Emp.Sal%TYPE;
6  V_Job Emp.Job%TYPE;
7  CURSOR EmpCursor
8  IS
9  SELECT Ename, Sal, Job
10 FROM Emp
11 WHERE Sal IS NOT NULL
12 ORDER BY Sal DESC;
13 BEGIN
14 DELETE BigHeads1;
15 COMMIT;
16 OPEN EmpCursor;
17 FETCH EmpCursor INTO V_Ename, V_CurrentSal, V_Job;
18 WHILE EmpCursor%ROWCOUNT <= V_Number AND EmpCursor%FOUND
19 LOOP
20 INSERT INTO BigHeads1(Ename, Salary)
21 VALUES(V_Ename, V_CurrentSal);
22 V_LastSal := V_CurrentSal;
23 FETCH EmpCursor INTO V_Ename, V_CurrentSal, V_Job;
24 IF V_LastSal = V_CurrentSal THEN
25 V_Number := V_Number + 1;
26 END IF;
```

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```
27 END LOOP;
28 CLOSE EmpCursor;
29 COMMIT;
30* END;
```

```
SQL> /
```

```
Enter value for givenumber: 5
```

```
PL/SQL procedure successfully completed.
```

```
SQL> SELECT * FROM BigHeads1;
```

ENAME	SALARY
KING	5000
SCOTT	3000
FORD	3000
JONES	2975
BLAKE	2850
CLARK	2450

```
6 rows selected.
```

```
SQL> cl scr
```

```
SQL> CREATE TABLE PayRollDept10
2 AS
3 SELECT
4     Empno,
5     Ename,
6     Job,
7     HireDate,
8     TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate) / 12) EmpExpr,
9     Sal Basic,
10    Comm Commission,
11    Sal + NVL(Comm, 0) GrossSal
12 FROM Emp
13 WHERE 1 = 2;
```

```
Table created.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 CREATE TABLE PayRollDept20
2 AS
3 SELECT
4     Empno,
5     Ename,
```

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```
6      Job,
7      HireDate,
8      TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate) / 12) EmpExpr,
9      Sal Basic,
10     Comm Commission,
11     Sal + NVL(Comm, 0) GrossSal
12 FROM Emp
13* WHERE 1 = 2
SQL> /
```

Table created.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  CREATE TABLE PayRollDept30
2  AS
3  SELECT
4      Empno,
5      Ename,
6      Job,
7      HireDate,
8      TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate) / 12) EmpExpr,
9      Sal Basic,
10     Comm Commission,
11     Sal + NVL(Comm, 0) GrossSal
12 FROM Emp
13* WHERE 1 = 2
SQL> /
```

Table created.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  CREATE TABLE PayRollDept40
2  AS
3  SELECT
4      Empno,
5      Ename,
6      Job,
7      HireDate,
8      TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate) / 12) EmpExpr,
9      Sal Basic,
10     Comm Commission,
11     Sal + NVL(Comm, 0) GrossSal
12 FROM Emp
13* WHERE 1 = 2
```

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SQL> /

Table created.

SQL> SELECT * FROM PayRollDept10;

no rows selected

SQL> SELECT * FROM PayRollDept20;

no rows selected

SQL> SELECT * FROM PayRollDept30;

no rows selected

SQL> SELECT * FROM PayRollDept40;

no rows selected

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_EmpExpr PayRollDept10.EmpExpr%TYPE;
3  V_BasicSal PayRollDept10.Basic%TYPE;
4  V_Commission PayRollDept10.Commission%TYPE;
5  V_GrossSal PayRollDept10.GrossSal%TYPE;
6  V_PayRollDept10 PayRollDept10%ROWTYPE;
7  V_PayRollDept20 PayRollDept20%ROWTYPE;
8  V_PayRollDept30 PayRollDept30%ROWTYPE;
9  V_PayRollDept40 PayRollDept40%ROWTYPE;
10 V_PayRollDept10Status NUMBER(3);
11 V_PayRollDept20Status NUMBER(3);
12 V_PayRollDept30Status NUMBER(3);
13 V_PayRollDept40Status NUMBER(3);
14 V_TableStatus NUMBER(2);
15 CURSOR EmpDeptwisePayroll
16 IS
17 SELECT *
18 FROM Emp
19 ORDER BY Deptno;
20 V_CursorSubType EmpDeptwisePayroll%ROWTYPE;
21 BEGIN
22 BEGIN
23 SELECT COUNT(*) INTO V_TableStatus
24 FROM PayRollDept10;
25 IF V_TableStatus <> 0 THEN
```

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```
26      DELETE FROM PayRollDept10;
27  END IF;
28  SELECT COUNT(*) INTO V_TableStatus
29  FROM PayRollDept20;
30  IF V_TableStatus <> 0 THEN
31      DELETE FROM PayRollDept20;
32  END IF;
33  SELECT COUNT(*) INTO V_TableStatus
34  FROM PayRollDept30;
35  IF V_TableStatus <> 0 THEN
36      DELETE FROM PayRollDept30;
37  END IF;
38  SELECT COUNT(*) INTO V_TableStatus
39  FROM PayRollDept40;
40  IF V_TableStatus <> 0 THEN
41      DELETE FROM PayRollDept40;
42  END IF;
43  COMMIT;
44  END;
45  IF NOT EmpDeptwisePayroll%ISOPEN
46  THEN
47  OPEN EmpDeptwisePayroll;
48  END IF;
49  FETCH EmpDeptwisePayroll INTO V_CursorSubType;
50  WHILE EmpDeptwisePayroll%FOUND
51  LOOP
52      IF V_CursorSubType.Deptno = 10
53      THEN
54          V_PayRollDept10.EmpExpr := TRUNC((MONTHS_BETWEEN(SYSDATE,
V_CursorSubType.HireDate) / 12));
55          V_PayRollDept10.GrossSal := V_CursorSubType.Sal +
NVL(V_CursorSubType.Comm, 0);
56          INSERT INTO
57          PayRollDept10
58          (Empno, Ename, Job, HireDate, EmpExpr, Basic, Commission,
GrossSal)
59          VALUES
60          (V_CursorSubType.Empno, V_CursorSubType.Ename,
V_CursorSubType.Job, V_CursorSubType.HireDate, V_PayRollDept10.EmpExpr,
V_CursorSubType.Sal, V_CursorSubType.Comm, V_PayRollDept10.GrossSal);
61      ELSE
62          IF V_CursorSubType.Deptno = 20
63          THEN
64              V_PayRollDept20.EmpExpr :=
TRUNC((MONTHS_BETWEEN(SYSDATE, V_CursorSubType.HireDate) / 12));
65              V_PayRollDept20.GrossSal := V_CursorSubType.Sal +
NVL(V_CursorSubType.Comm, 0);
66              INSERT INTO
```

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```
67          PayRollDept20
68          (Empno, Ename, Job, HireDate, EmpExpr, Basic,
Commission, GrossSal)
69          VALUES
70          (V_CursorSubType.Empno, V_CursorSubType.Ename,
V_CursorSubType.Job, V_CursorSubType.HireDate, V_PayRollDept20.EmpExpr,
V_CursorSubType.Sal, V_CursorSubType.Comm, V_PayRollDept20.GrossSal);
71      ELSE
72          IF V_CursorSubType.Deptno = 30
73          THEN
74              V_PayRollDept30.EmpExpr :=
TRUNC((MONTHS_BETWEEN(SYSDATE, V_CursorSubType.HireDate) / 12));
75              V_PayRollDept30.GrossSal := V_CursorSubType.Sal +
NVL(V_CursorSubType.Comm, 0);
76              INSERT INTO
77              PayRollDept30
78              (Empno, Ename, Job, HireDate, EmpExpr, Basic,
Commission, GrossSal)
79              VALUES
80              (V_CursorSubType.Empno, V_CursorSubType.Ename,
V_CursorSubType.Job, V_CursorSubType.HireDate, V_PayRollDept30.EmpExpr,
V_CursorSubType.Sal, V_CursorSubType.Comm, V_PayRollDept30.GrossSal);
81      ELSE
82          IF V_CursorSubType.Deptno = 40
83          THEN
84              V_PayRollDept40.EmpExpr :=
TRUNC((MONTHS_BETWEEN(SYSDATE, V_CursorSubType.HireDate) / 12));
85              V_PayRollDept40.GrossSal := V_CursorSubType.Sal +
NVL(V_CursorSubType.Comm, 0);
86              INSERT INTO
87              PayRollDept40
88              (Empno, Ename, Job, HireDate, EmpExpr, Basic,
Commission, GrossSal)
89              VALUES
90              (V_CursorSubType.Empno, V_CursorSubType.Ename,
V_CursorSubType.Job, V_CursorSubType.HireDate, V_PayRollDept40.EmpExpr,
V_CursorSubType.Sal, V_CursorSubType.Comm, V_PayRollDept40.GrossSal);
91          END IF;
92      END IF;
93  END IF;
94  END IF;
95  FETCH EmpDeptwisePayroll INTO V_CursorSubType;
96  END LOOP;
97  COMMIT;
98  CLOSE EmpDeptwisePayroll;
99* END;
SQL> /
```

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PL/SQL procedure successfully completed.

```
SQL> COLUMN EmpNo FORMAT 9999
SQL> COLUMN Ename FORMAT A8
SQL> COLUMN Job FORMAT A10
SQL> COLUMN EmpExpr FORMAT 99
SQL> COLUMN Commission FORMAT 9999
SQL> COLUMN GrossSal FORMAT 99999
SQL> SELECT *
      2 FROM PayrollDept10;
```

EMPNO	ENAME	JOB	HIREDATE	EMPEXPR	BASIC	COMMISSION	GROSSSAL
-------	-------	-----	----------	---------	-------	------------	----------

7839	KING	PRESIDENT	17-NOV-81	33	5000		5000
7782	CLARK	MANAGER	09-JUN-81	33	2450		2450
7934	MILLER	CLERK	23-JAN-82	32	1300		1300

```
SQL> SELECT *
      2 FROM PayrollDept20;
```

EMPNO	ENAME	JOB	HIREDATE	EMPEXPR	BASIC	COMMISSION	GROSSSAL
-------	-------	-----	----------	---------	-------	------------	----------

7876	ADAMS	CLERK	12-JAN-83	31	1100		1100
7788	SCOTT	ANALYST	09-DEC-82	31	3000		3000
7369	SMITH	CLERK	17-DEC-80	33	800		800
7902	FORD	ANALYST	03-DEC-81	32	3000		3000
7566	JONES	MANAGER	02-APR-81	33	2975		2975

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2 V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpNo;
3 V_Ename Emp.Ename%TYPE NOT NULL := UPPER('&EnterEname');
```

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```
4 V_Deptno Emp.Deptno%TYPE NOT NULL := &EnterDepto;
5 V_Job Emp.Job%TYPE NOT NULL := UPPER('&EnterJob');
6 V_MGR Emp.MGR%TYPE := &EnterMGRNo;
7 V_HireDate Emp.HireDate%TYPE NOT NULL := '&EnterHireDate';
8 V_Sal Emp.Sal%TYPE NOT NULL := &EnterSal;
9 V_Comm Emp.Comm%TYPE := &EnterComm;
10 V_MGRName Emp.Ename%TYPE;
11 BEGIN
12 DECLARE
13 V_CurrentDeptno Dept.Deptno%TYPE;
14 CURSOR DeptCursor
15 IS
16 SELECT Deptno
17 FROM Dept
18 WHERE Deptno = V_Deptno;
19 BEGIN
20 OPEN DeptCursor;
21 FETCH DeptCursor INTO V_CurrentDeptno;
22 IF DeptCursor%FOUND
23 THEN
24 DECLARE
25 V_CurrentMGR Emp.MGR%TYPE;
26 CURSOR EmpCursorMGR
27 IS
28 SELECT DISTINCT MGR
29 FROM Emp
30 WHERE MGR = V_MGR;
31 BEGIN
32 OPEN EmpCursorMGR;
33 FETCH EmpCursorMGR INTO V_CurrentMGR;
34 IF EmpCursorMGR%FOUND
35 THEN
36 DECLARE
37 V_CurrentJob Emp.Job%TYPE;
38 CURSOR EmpCursorJOB
39 IS
40 SELECT DISTINCT Job
41 FROM Emp
42 WHERE Job = V_Job;
43 BEGIN
44 OPEN EmpCursorJOB;
45 FETCH EmpCursorJOB INTO V_CurrentJob;
46 IF EmpCursorJOB%FOUND
47 THEN
48 DECLARE
49 V_CurrentEmpno Emp.Empno%TYPE;
50 CURSOR EmpCursorEMPNO
51 IS
```

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```
52          SELECT Empno
53          FROM Emp
54          WHERE Empno = V_Empno;
55          BEGIN
56          OPEN EmpCursorEMPNO;
57          FETCH EmpCursorEMPNO INTO V_CurrentEmpno;
58          IF EmpCursorEMPNO%NOTFOUND
59          THEN
60              INSERT INTO Emp(Empno, Ename, Deptno, Job,
MGR, HireDate, Sal, Comm)
61              VALUES (V_Empno, V_Ename, V_Deptno, V_Job,
V_MGR, V_HireDate, V_Sal, V_Comm);
62              SELECT Ename, Deptno, Job, MGR, HireDate,
Sal, Comm INTO V_Ename , V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal,
V_Comm
63              FROM Emp
64              WHERE Empno = V_Empno;
65              IF V_MGR IS NOT NULL THEN
66                  SELECT Ename INTO V_MGRName
67                  FROM Emp
68                  WHERE Empno = V_MGR;
69              ELSE
70                  SELECT Ename INTO V_MGRName
71                  FROM Emp
72                  WHERE MGR IS NULL;
73              END IF;
74              DBMS_OUTPUT.PUT_LINE('The Details of New
Employee Record Inserted are as Follows...');
75              DBMS_OUTPUT.PUT_LINE('The Employee Number :
'||V_Empno);
76              DBMS_OUTPUT.PUT_LINE('The Employee Name :
'||INITCAP(V_Ename));
77              DBMS_OUTPUT.PUT_LINE('The Department Number
: '||V_Deptno);
78              DBMS_OUTPUT.PUT_LINE('The Designation :
'||INITCAP(V_Job));
79              DBMS_OUTPUT.PUT_LINE('The Manager Number :
'||NVL(TO_CHAR(V_MGR), "Cannot be Managed")||' , and his Name is :
'||V_MGRName);
80              DBMS_OUTPUT.PUT_LINE('The Joining Date :
'||TO_CHAR(V_HireDate, 'FMDD, Month Year'));
81              DBMS_OUTPUT.PUT_LINE('The Basic Salary :
'||CONCAT('INR ', TO_CHAR(V_Sal, '99,999.99')));
82              DBMS_OUTPUT.PUT_LINE('The Commission Earned
: '||NVL(TO_CHAR(V_Comm), 'No Commission...Sorry!'));
83              ELSE
84              DBMS_OUTPUT.PUT_LINE('The Given Information
For Employee Number '||V_Empno||' is Already Available.');
```

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```
85 DBMS_OUTPUT.PUT_LINE('Employee Numbers
Cannot Be Duplicated.');
```

```
86 DBMS_OUTPUT.PUT_LINE('Your INSERT
Transaction has been Cancelled, Currently.');
```

```
87 DBMS_OUTPUT.PUT_LINE('Thank You for Using
the Data Insert Services...');
```

```
88 RETURN;
```

```
89 END IF;
```

```
90 CLOSE EmpCursorEMPNO;
```

```
91 END;
```

```
92 ELSE
```

```
93 DBMS_OUTPUT.PUT_LINE('The Given Information For
Designation '||V_Job||' is Not Recognized.');
```

```
94 DBMS_OUTPUT.PUT_LINE('Please Register The
Designation With The Administrator.');
```

```
95 DBMS_OUTPUT.PUT_LINE('Then Try The Data Insert.');
```

```
96 DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has
been Cancelled, Currently.');
```

```
97 DBMS_OUTPUT.PUT_LINE('Thank You for Using the Data
Insert Services...');
```

```
98 RETURN;
```

```
99 END IF;
```

```
100 CLOSE EmpCursorJOB;
```

```
101 END;
```

```
102 ELSE
```

```
103 DBMS_OUTPUT.PUT_LINE('The Given Information For Manager
Number '||V_MGR||' is Not Recognized.');
```

```
104 DBMS_OUTPUT.PUT_LINE('Please Register The Manager With
The Administrator.');
```

```
105 DBMS_OUTPUT.PUT_LINE('Then Try The Data Insert.');
```

```
106 DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has been
Cancelled, Currently.');
```

```
107 DBMS_OUTPUT.PUT_LINE('Thank You for Using the Data
Insert Services...');
```

```
108 RETURN;
```

```
109 END IF;
```

```
110 CLOSE EmpCursorMGR;
```

```
111 END;
```

```
112 ELSE
```

```
113 DBMS_OUTPUT.PUT_LINE('The Given Information For Department
Number '||V_Deptno||' is Not Recognized.');
```

```
114 DBMS_OUTPUT.PUT_LINE('Please Register The Department Number
With The Administrator.');
```

```
115 DBMS_OUTPUT.PUT_LINE('Then Try The Data Insert.');
```

```
116 DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has been
Cancelled, Currently.');
```

```
117 DBMS_OUTPUT.PUT_LINE('Thank You for Using the Data Insert
Services...');
```

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```
118         RETURN;
119     END IF;
120     CLOSE DeptCursor;
121     END;
122* END;
SQL> /
Enter value for enterempno: 7935
Enter value for enterename: SURESH
Enter value for enterdepto: 30
Enter value for enterjob: CLERK
Enter value for entermgrno: 7698
Enter value for enterhiredate: 18-NOV-14
Enter value for entersal: 2000
Enter value for entercomm: NULL
The Details of New Employee Record Inserted are as Follows...
The Employee Number : 7935
The Employee Name : Suresh
The Department Number : 30
The Designation : Clerk
The Manager Number : 7698 , and his Name is : BLAKE
The Joining Date : 18, November Twenty Fourteen
The Basic Salary : INR 2,000.00
The Commission Earned : No Commission. Sorry!
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for enterempno: 7936
Enter value for enterename: SUKESH
Enter value for enterdepto: 60
Enter value for enterjob: CLERK
Enter value for entermgrno: 7698
Enter value for enterhiredate: 18-NOV-14
Enter value for entersal: 1500
Enter value for entercomm: NULL
The Given Information For Department Number 60 is Not Recognized.
Please Register The Department Number With The Administrator.
Then Try The Data Insert.
Your INSERT Transaction has been Cancelled, Currently.
Thank You for Using the Data Insert Services...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for enterempno: 7936
Enter value for enterename: SUKESH
Enter value for enterdepto: 30
Enter value for enterjob: SRCLERK
```

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```
Enter value for entermgrno: 7698
Enter value for enterhiredate: 18-NOV-14
Enter value for entersal: 2000
Enter value for entercomm: NULL
The Given Information For Designation SRCLERK is Not Recognized.
Please Register The Designation With The Administrator.
Then Try The Data Insert.
Your INSERT Transaction has been Cancelled, Currently.
Thank You for Using the Data Insert Services...
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> ED
```

Wrote file afiedt.buf

```
1  DECLARE
2  CURSOR DeptCursor
3  IS
4  SELECT Deptno, Dname
5  FROM Dept
6  ORDER BY Deptno;
7  CURSOR EmpCursor(V_Deptno Emp.Deptno%TYPE)
8  IS
9  SELECT Ename, Job, HireDate, Sal
10 FROM Emp
11 WHERE Deptno = V_Deptno;
12 V_CurrDeptno Dept.Deptno%TYPE;
13 V_CurrDname Dept.Dname%TYPE;
14 V_Ename Emp.Ename%TYPE;
15 V_Job Emp.Job%TYPE;
16 V_Mgr Emp.MGR%TYPE;
17 V_HireDate Emp.HireDate%TYPE;
18 V_Sal Emp.Sal%TYPE;
19 BEGIN
20 OPEN DeptCursor;
21 LOOP
22 FETCH DeptCursor INTO V_CurrDeptno, V_CurrDname;
23 EXIT WHEN DeptCursor%NOTFOUND;
24 DBMS_OUTPUT.PUT_LINE('Department Number : ' || V_CurrDeptno || '
Department Name : ' || V_CurrDname);
```

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```
25 IF EmpCursor%ISOPEN THEN
26 CLOSE EmpCursor;
27 END IF;
28 OPEN EmpCursor(V_CurrDeptno);
29 LOOP
30 FETCH EmpCursor INTO V_Ename, V_Job, V_HireDate, V_Sal;
31 IF EmpCursor%FOUND THEN
32 DBMS_OUTPUT.PUT_LINE(V_Ename||' '||V_Job||' '||' '||V_HireDate||'
'||V_Sal);
33 ELSE
34 DBMS_OUTPUT.PUT_LINE('****End of Employees, in Department :
'||V_CurrDeptno||'.');
35 END IF;
36 EXIT WHEN EmpCursor%NOTFOUND;
37 END LOOP;
38 IF EmpCursor%ISOPEN THEN
39 CLOSE EmpCursor;
40 END IF;
41 END LOOP;
42 IF EmpCursor%ISOPEN THEN
43 CLOSE EmpCursor;
44 END IF;
45 CLOSE DeptCursor;
46* END;
SQL> /
Department Number : 10      Department Name : ACCOUNTING
KING PRESIDENT 17-NOV-81 5000
CLARK MANAGER 09-JUN-81 2450
MILLER CLERK 23-JAN-82 1300
****End of Employees, in Department : 10.
Department Number : 20      Department Name : RESEARCH
JONES MANAGER 02-APR-81 2975
FORD ANALYST 03-DEC-81 3000
SMITH CLERK 17-DEC-80 800
SCOTT ANALYST 09-DEC-82 3000
ADAMS CLERK 12-JAN-83 1100
****End of Employees, in Department : 20.
Department Number : 30      Department Name : SALES
BLAKE MANAGER 01-MAY-81 2850
MARTIN SALESMAN 28-SEP-81 1250
ALLEN SALESMAN 20-FEB-81 1600
TURNER SALESMAN 08-SEP-81 1500
JAMES CLERK 03-DEC-81 950
WARD SALESMAN 22-FEB-81 1250
****End of Employees, in Department : 30.
Department Number : 40      Department Name : OPERATIONS
****End of Employees, in Department : 40.
```

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PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  CURSOR MyEmpCursor (P_DeptNo Dept.Deptno%TYPE)
3  IS
4  SELECT EmpNo, Ename, Mgr, Sal
5  FROM EMP
6  WHERE Deptno = P_DeptNo
7  ORDER BY Empno;
8  CURSOR MyDeptCursor
9  IS
10 SELECT DISTINCT DeptNo, Dname
11 FROM DEPT;
12 IRowno NUMBER:=0;
13 V_DeptNo Dept.Deptno%TYPE;
14 V_DNAME Dept.Dname%TYPE;
15 V_EMPNO Emp.Empno%TYPE;
16 V_ENAME Emp.Ename%TYPE;
17 V_MGR Emp.Mgr%TYPE;
18 V_SAL Emp.Sal%TYPE;
19 BEGIN
20     OPEN MyDeptCursor;
21     LOOP
22         FETCH MyDeptCursor INTO V_Deptno, V_Dname;
23         EXIT WHEN MyDeptCursor%NOTFOUND OR MyDeptCursor%NOTFOUND IS
NULL;
24         IRowNo := 0;
25         DBMS_OUTPUT.PUT_LINE('Displaying Employees of '||INITCAP(V_Dname)||
' Department. ');
26         OPEN MyEmpCursor(V_Deptno);
27         LOOP
28             FETCH MyEmpCursor INTO V_Empno, V_Ename, V_Mgr, V_Sal;
29             EXIT WHEN MyEmpCursor%NOTFOUND OR MyEmpCursor%NOTFOUND IS
NULL;
30             DBMS_OUTPUT.PUT_LINE(RPAD(V_Empno, 8)||RPAD(V_Ename,
12)||RPAD(V_Sal, 8)||RPAD(V_Mgr, 8));
31             IRowno := IRowno + 1;
32         END LOOP;
33         DBMS_OUTPUT.PUT_LINE('Number of Employees Scanned and Processed
are : '|| iRowNo);
34         CLOSE MyEmpCursor;
35     END LOOP;
36     CLOSE MyDeptCursor;
```

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```
37* END;
SQL> /
Displaying Employees of Accounting Department.
7782      CLARK      2450      7839
7839      KING       5000
7934      MILLER     1300      7782
Number of Employees Scanned and Processed are : 3
Displaying Employees of Operations Department.
Number of Employees Scanned and Processed are : 0
Displaying Employees of Research Department.
7369      SMITH      800       7902
7566      JONES      2975      7839
7788      SCOTT      3000      7566
7876      ADAMS      1100      7788
7902      FORD       3000      7566
Number of Employees Scanned and Processed are : 5
Displaying Employees of Sales Department.
7499      ALLEN      1600      7698
7521      WARD       1250      7698
7654      MARTIN     1250      7698
7698      BLAKE      2850      7839
7844      TURNER     1500      7698
7900      JAMES      950       7698
Number of Employees Scanned and Processed are : 6
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> UPDATE Emp
  2 SET Sal = Sal + 1000
  3 WHERE Deptno = 30;
```

6 rows updated.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT ROWID, Ename, Sal
2 FROM Emp
3* WHERE Deptno = 30
SQL> /
```

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ROWID	ENAME	SAL
AAAOKYAAEAAAAAHUAAB	BLAKE	2850
AAAOKYAAEAAAAAHUAAE	MARTIN	1250
AAAOKYAAEAAAAAHUAAF	ALLEN	1600
AAAOKYAAEAAAAAHUAAG	TURNER	1500
AAAOKYAAEAAAAAHUAAH	JAMES	950
AAAOKYAAEAAAAAHUAAI	WARD	1250

6 rows selected.

```
SQL> DECLARE
  2  CURSOR SalCursor
  3  IS
  4  SELECT Sal
  5  FROM Emp
  6  WHERE Deptno = 30
  7  FOR UPDATE OF Sal NOWAIT;
  8  BEGIN
  9  FOR EmpRec IN SalCursor
 10  LOOP
 11  UPDATE Emp
 12  SET
 13  Sal = Sal + (EmpRec.Sal * 1.10)
 14  WHERE CURRENT OF SalCursor;
 15  END LOOP;
 16  END;
 17  /
```

PL/SQL procedure successfully completed.

```
SQL> SELECT ROWID, Ename, Sal
  2  FROM Emp
  3  WHERE Deptno = 30;
```

ROWID	ENAME	SAL
AAAOKYAAEAAAAAHUAAB	BLAKE	5985
AAAOKYAAEAAAAAHUAAE	MARTIN	2625
AAAOKYAAEAAAAAHUAAF	ALLEN	3360
AAAOKYAAEAAAAAHUAAG	TURNER	3150
AAAOKYAAEAAAAAHUAAH	JAMES	1995
AAAOKYAAEAAAAAHUAAI	WARD	2625

6 rows selected.

```
SQL> SPOOL OFF
```

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